

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1. (original) Apparatus for modulating the temperature and pressure within a body cavity by means of recirculation of a biological or biocompatible liquid within the cavity, but outside of blood vessels, which comprises: (a) first pump means for infusing liquid at a controlled temperature and flow rate into the cavity; (b) means for monitoring the temperature within the cavity; (c) means for monitoring the pressure within the cavity; and (d) second pump means for withdrawing liquid at a controlled flow rate from the cavity.
2. (original) Apparatus as claimed in claim 1, additionally comprising a dual lumen catheter insertable into said cavity, one lumen being connected to said first pump means and the second lumen being connected to said second pump means.
3. (original) Apparatus as claimed in claim 2, comprising a further catheter insertable into said cavity to withdraw liquid from said cavity.
4. (original) Apparatus as claimed in claim 3, in which said further catheter has associated pump means to withdraw liquid from said cavity.
5. (original) Apparatus as claimed in claim 3, in which said further catheter has associated flow control means to regulate the flow of liquid from said cavity.
6. (original) Apparatus as claimed in claim 1, including liquid storage means to receive liquid from said first pump means and to deliver liquid to said second pump means.
7. (original) Apparatus as claimed in claim 6, comprising a further catheter insertable into said cavity to withdraw liquid from said cavity and in which said liquid storage means also receives liquid from said further catheter.

8. (original) Apparatus as claimed in claim 6, in which said liquid storage means includes means to oxygenate liquid.

9. (original) Apparatus as claimed in claim 6, in which said liquid storage means includes means to adjust the pH of the liquid.

10. (original) Apparatus as claimed in claim 6, in which said liquid storage means includes means to separate contaminants from the liquid by foam fractionation.

11. (original) Apparatus as claimed in claim 6, additionally comprising control means for at least one said pump means to control the operation of said pump means dependant on the output of said means for monitoring pressure and temperature within the cavity.

12. (original) Apparatus as claimed in claim 6, additionally comprising: (a) means for monitoring liquid temperature in the liquid storage means; and (b) means for controlling said second pump means to control the operation of said pump means responsive to the difference between the temperature monitored by the means for monitoring the temperature within the cavity and the means for monitoring the liquid temperature in the liquid storage means.

13. (original) Apparatus as claimed in claim 1, additionally comprising means responsive to the pressure sensed by said pressure monitoring means within the cavity to control operation of said first pump means.

14. - 17. (canceled)